

Customer No.: 31561  
Application No.: 10/711,534  
Docket No.: 13708-US-PA

To the Claims:

Please replace the as-filed claims with the following set of claims.

Claim 1. (currently amended) A battery holder mounting a battery to a printed circuit board having a positive contact and a negative contact, the battery holder comprising:

a resilient electrode plate disposed on the printed circuit board and electrically connected to the positive contact, wherein the battery has ~~an anode~~ positive electrode electrically connected to the resilient electrode plate;

a ring surrounding the resilient electrode plate, accommodating the battery therein and electrically connected to the negative contact of the printed circuit board; and

a battery cap fastened to and electrically ~~connecting~~ connected with the ring, the battery cap covering a top of the ring, the battery having a ~~cathode~~ negative electrode electrically ~~connecting~~ connected with the battery cap having a step fittingly covering a step of the negative electrode of the battery.

Claim 2. (original) The battery holder of claim 1, wherein the resilient electrode plate and ring are soldered to the positive and negative contacts of the printed circuit board by surface mount technology (SMT).

Claim 3. (currently amended) The battery holder of claim 2, wherein the resilient electrode plate comprises a ~~[[feet]]~~ foot soldered to the positive contact of the printed circuit board, and a flexible arm extending upwardly and engaging with the ~~anode~~ positive electrode of the battery.

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Claim 4. (original) The battery holder of claim 1, wherein the battery cap engages an outer periphery of the ring.

Claim 5. (original) The battery holder of claim 4, wherein the outer periphery of the ring defines a groove, and the battery cap has at least a protrusion engaging in groove.

Claim 6. (currently amended) The battery holder of claim 1, wherein the battery has an insulation between the ~~anode positive electrode~~ and ~~the negative electrode~~ cathode thereof, and ~~a step defined on the cathode beside the insulation, the battery cap having a step fittingly covering the step of the battery and the step of the negative electrode of the battery is located beside the insulation.~~

Claim 7. (currently amended) The battery holder of claim 6, wherein the battery cap has a spring tab extending toward a center thereof, the spring tab electrically engaging with the ~~cathode negative electrode~~ of the battery.

Claim 8. (currently amended) The battery holder of claim 7, wherein the spring tab has a downward protrusion electrically engaging with the ~~cathode negative electrode~~ of the battery.

Claim 9. (currently amended) A battery holder assembly comprising:  
a battery having an ~~anode positive electrode~~ and a ~~cathode negative electrode~~;

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a printed circuit board having a positive contact and a negative contact;

a resilient electrode plate soldered to the positive contact of the printed circuit board, wherein the battery is placed on top of the resilient electrode plate and the ~~anode~~ positive electrode of the battery is electrically connected to the positive contact via the resilient electrode plate;

a ring soldered to the negative contact of the printed circuit board, surrounding the battery and the resilient electrode plate; and

a battery cap fastened to top of the ring and the battery and electrically connected to the ~~cathode-negative electrode~~ of the battery and the ring, wherein the battery cap has a step fittingly covering a step of the negative electrode of the battery.

Claim 10. (currently amended) The battery holder assembly of claim 9, wherein the battery cap has a top portion and a flanged portion extending downwardly from an edge of the top portion, ~~the top portion defining a step fittingly covering a step of the cathode of the battery.~~

Claim 11. (currently amended) The battery holder assembly of claim 10, wherein the ring has a circular groove and the battery cap has a protrusion engaging in the circular groove and electrically ~~connecting~~ connected with the ring.

Claim 12. (currently amended) The battery holder assembly of claim 11, wherein the resilient electrode plate has alternately positioned flexible arms and soldering feet, the soldering feet being soldered to the positive contact of the printed circuit board, and the

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arms being upwardly extended away from the printed circuit board and electrically engaging with the ~~anode~~positive electrode of the battery.

Claim 13. (currently amended) The battery holder assembly of claim 12, wherein the battery cap further comprises at least a spring tab extending toward a center of the top portion of the battery cap, the at least a spring tab having a downward protrusion electrically contacting with the ~~cathode~~negative electrode of the battery.

Claim 14. (currently amended) The battery holder assembly of claim ~~[[13]]~~10, wherein the battery has an insulation between the ~~cathode~~negative electrode and ~~anode~~positive electrode, and the step of the ~~cathode~~negative electrode of the battery is located beside the insulation.

Claim 15. (currently amended) The battery holder assembly of claim ~~[[14]]~~11, wherein the protrusion of the battery cap engaging in the circular groove of the ring is formed on the flanged portion of the battery cap.

Claim 16. (original) The battery holder assembly of claim 15, wherein the resilient electrode plate and the ring are soldered to the printed circuit board by surface mount technology.

Claim 17. (currently amended) A battery holder assembly comprising:  
a printed circuit board;

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a resilient electrode plate soldered to the printed circuit board;  
a ring soldered to the printed circuit board and surrounding the resilient electrode plate;  
a battery accommodated in the ring and electrically ~~connecting~~connected with the resilient electrode plate; and  
a battery cap covering the battery, fastened to and electrically ~~connecting~~connected with the ring, and electrically connecting with the battery, wherein the battery cap has a step fittingly covering a step of a negative electrode of the battery.

Claim 18. (currently amended) The battery holder assembly of claim 17, wherein the battery has an anode electrically ~~connecting~~connected with the resilient electrode plate, and ~~[[a]]the cathode-negative electrode~~ electrically ~~connecting~~connected with the battery cap.

**Claim 19. (cancelled)**

Claim 20. (currently amended) The battery holder assembly of claim ~~[[19]]~~17, wherein the battery cap has a top portion having a spring tab electrically engaging with the ~~cathode-negative electrode~~ of the battery, and a flanged portion downwardly extending from the top portion and electrically engaging with the ring.